

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

Ernest GRIMBERG

Serial No.: US National Phase of
PCT/IL2004/000714

Filed: Herewith

For: Radiometry Using An Uncooled
Microbolometer Detector

Examiner: Not Yet Assigned

§
§
§
§
§
§
§
§
§
§
§

Group Art Unit:
Not Yet Assigned

Attorney
Docket: 31322

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION TO ACCEPT COLOR DRAWINGS/PHOTOGRAPHS

Sir:

1. This Petition is for the acceptance of color drawings/photographs, both black and white and color, in this case.

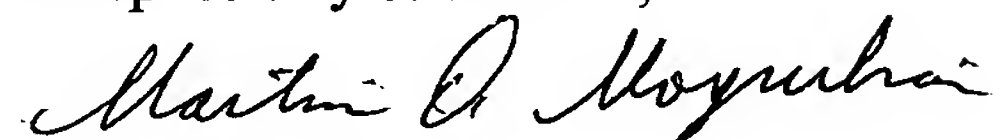
2. Attached hereto are three (3) sets of color photographs on DIN size A4 sheets (21.0 by 29.7 cm) for examination, copying and archival purposes.

3. Please amend the specification by inserting the following language as the first paragraph of the specification beginning at Brief Description of the Drawings (page 12 at line 26):

--The file of this patent contains at least one drawing executed in color photograph. Copies of this patent with color photograph(s) will be provided by the Patent and Trademark Office upon request and payment of necessary fee. --

4. Please charge \$130.00 and any additional fees, if required, to Deposit Account No. 50-1407. A duplicate copy of this form is attached herewith.

Respectfully submitted,



Martin D. Moynihan
Registration No. 40,338

Date: February 5, 2006

BEST AVAILABLE COPY

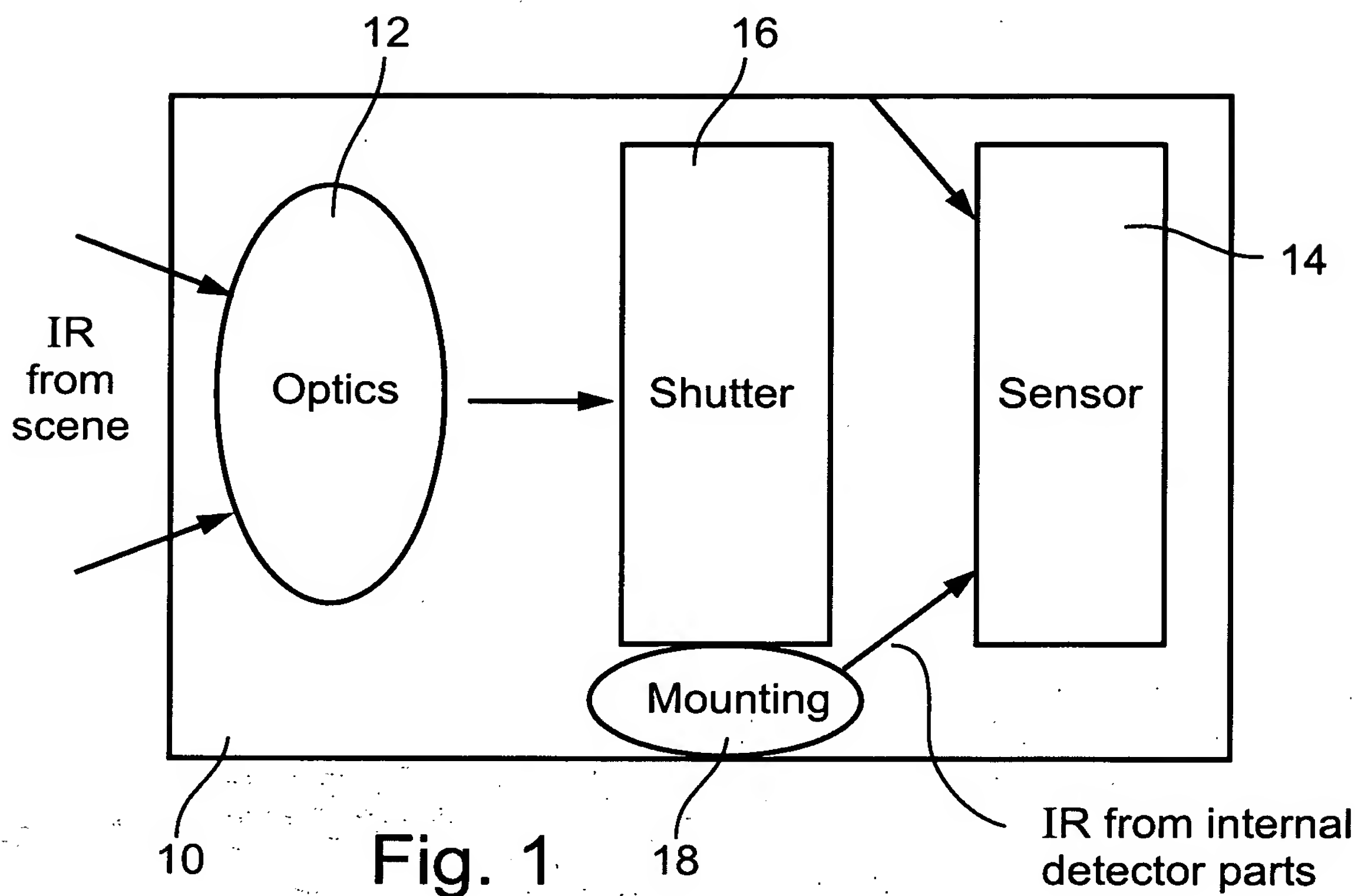


Fig. 1

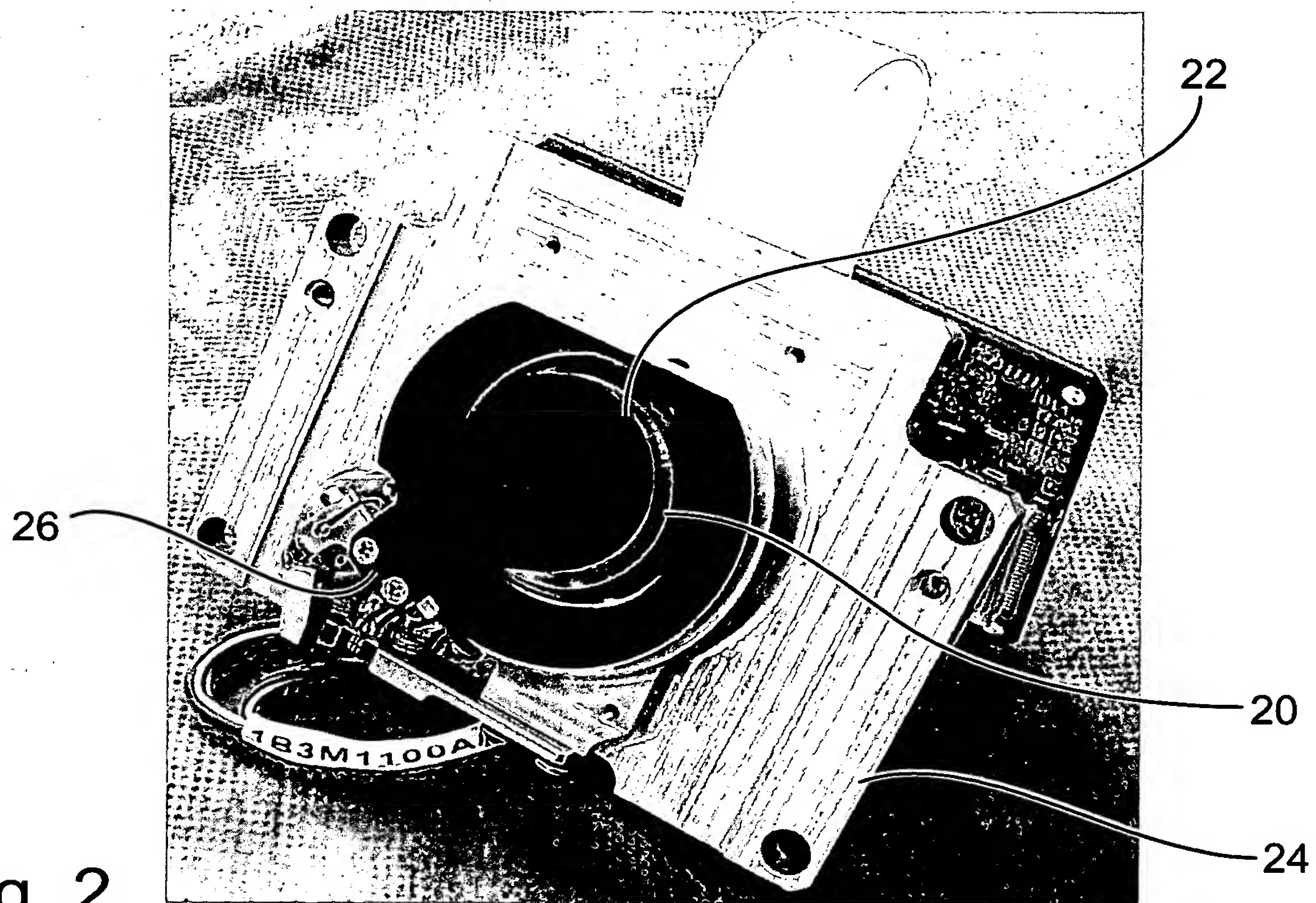


Fig. 2

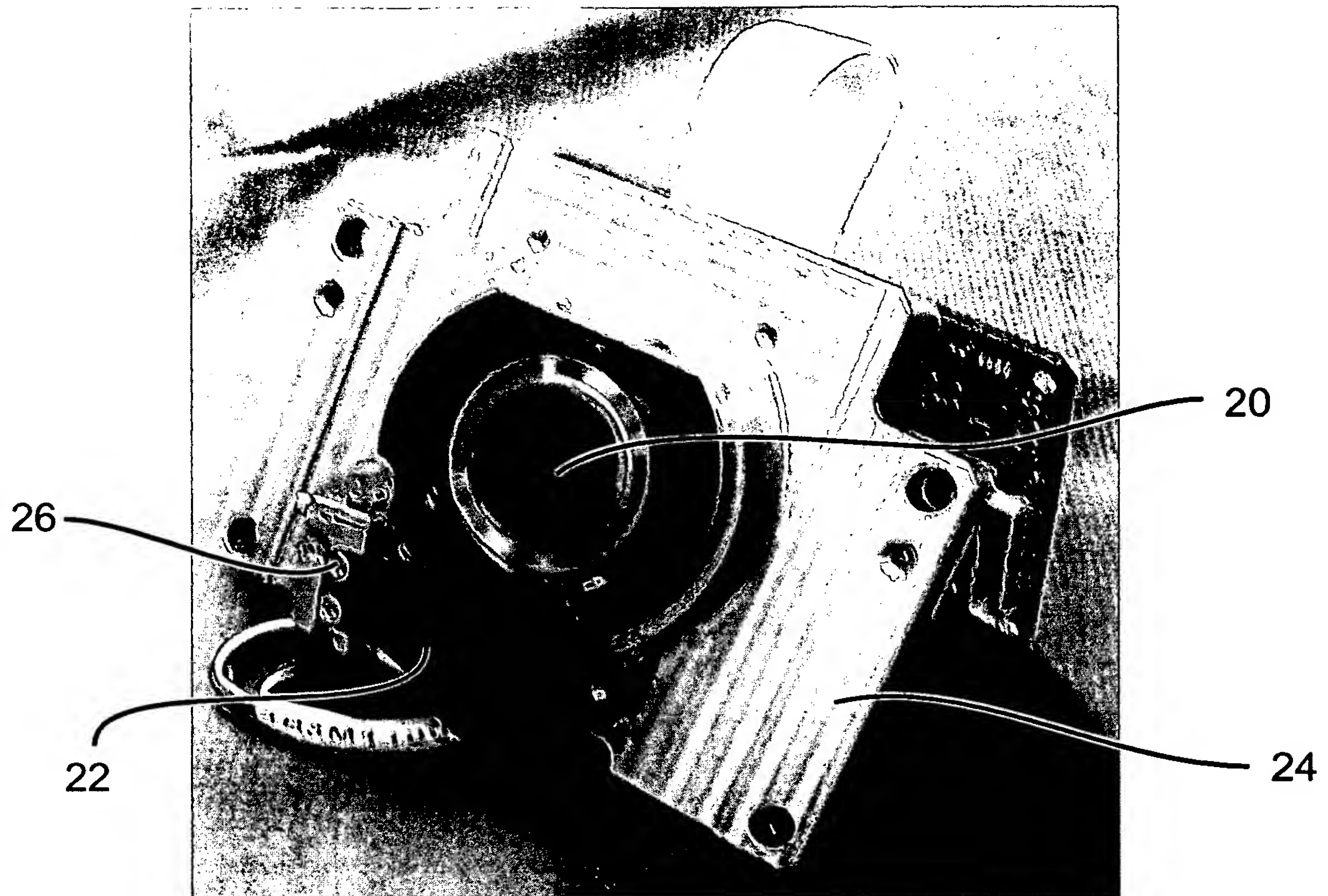


Fig. 3

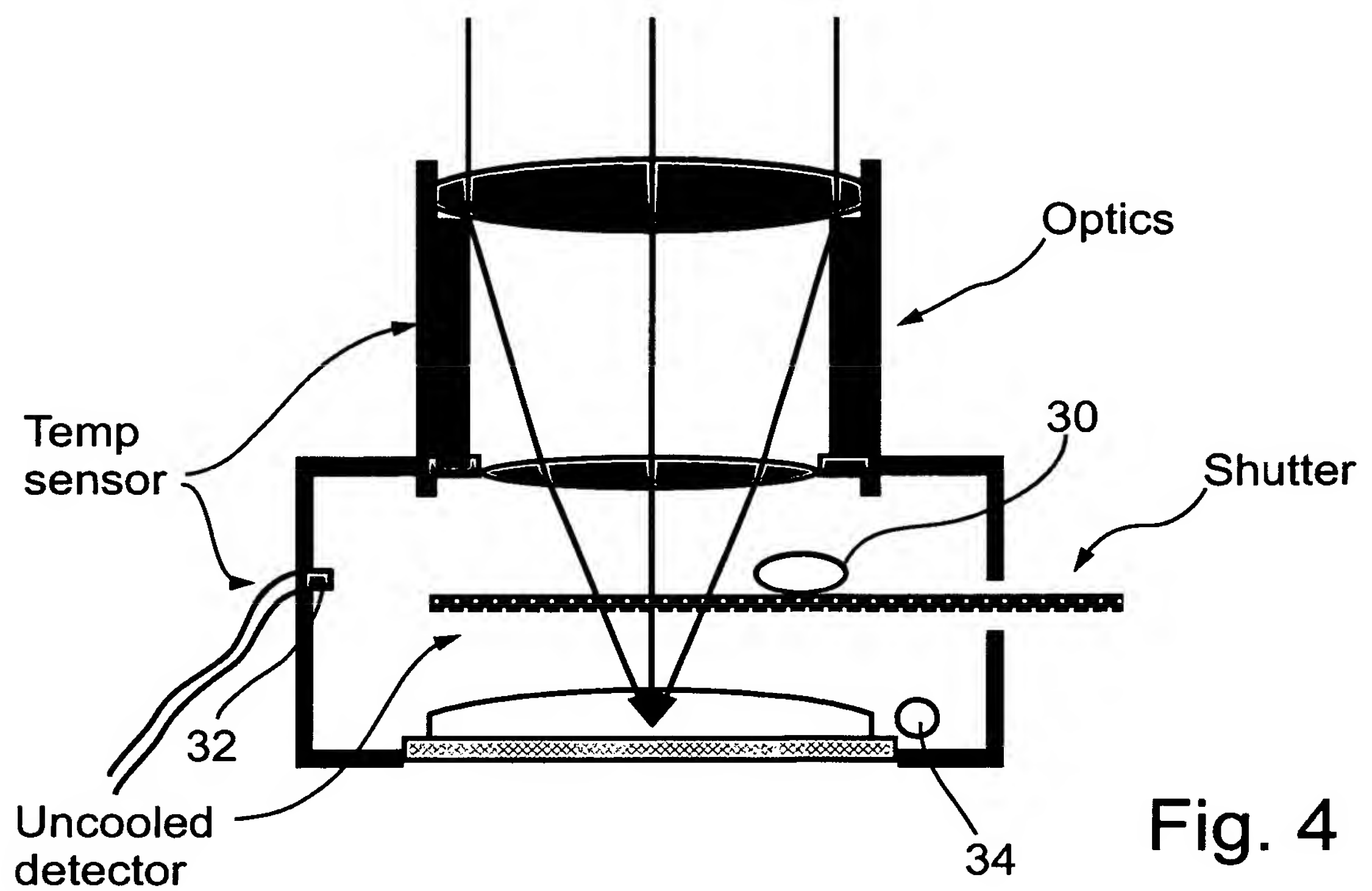


Fig. 4

3/11

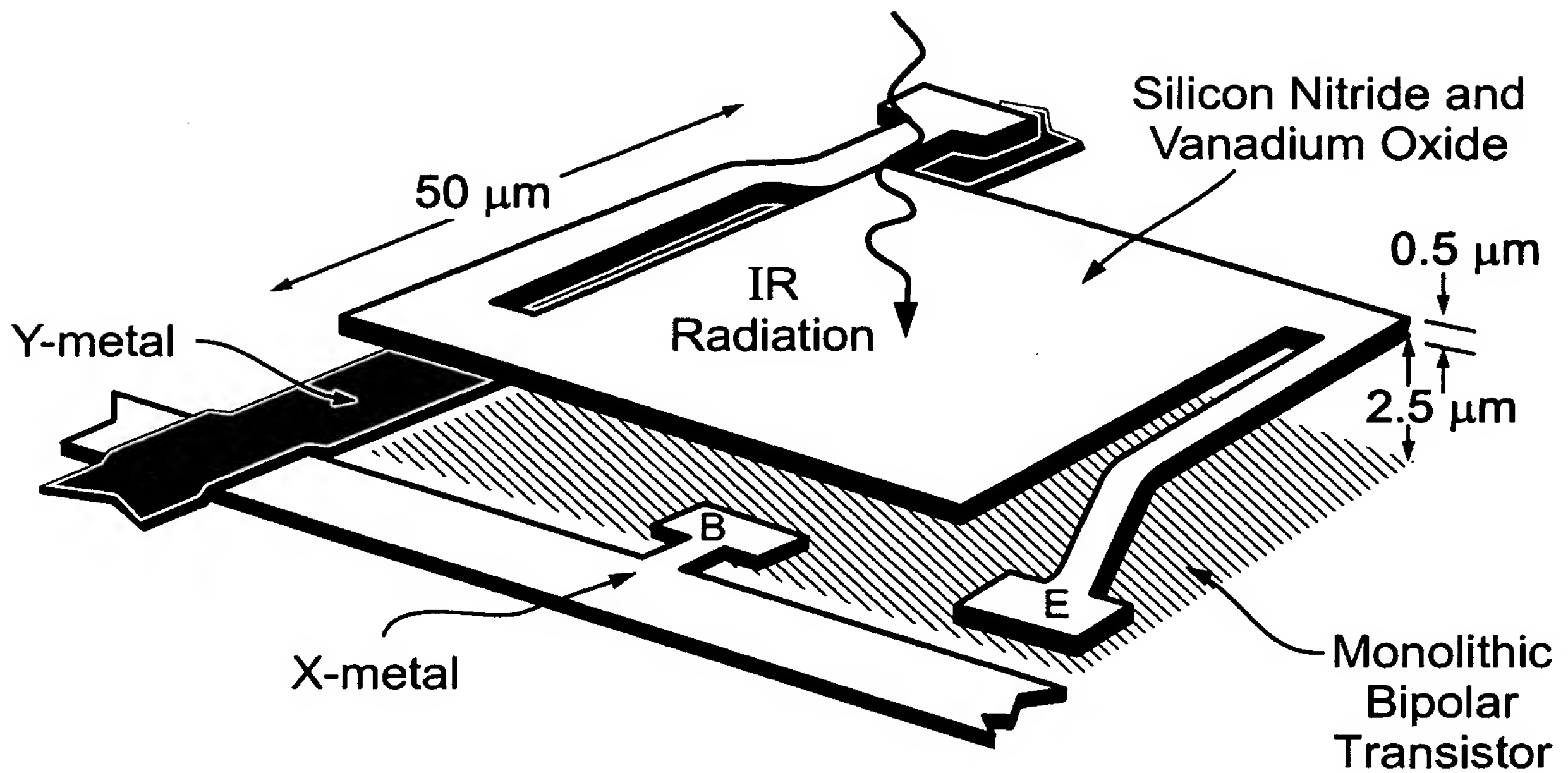
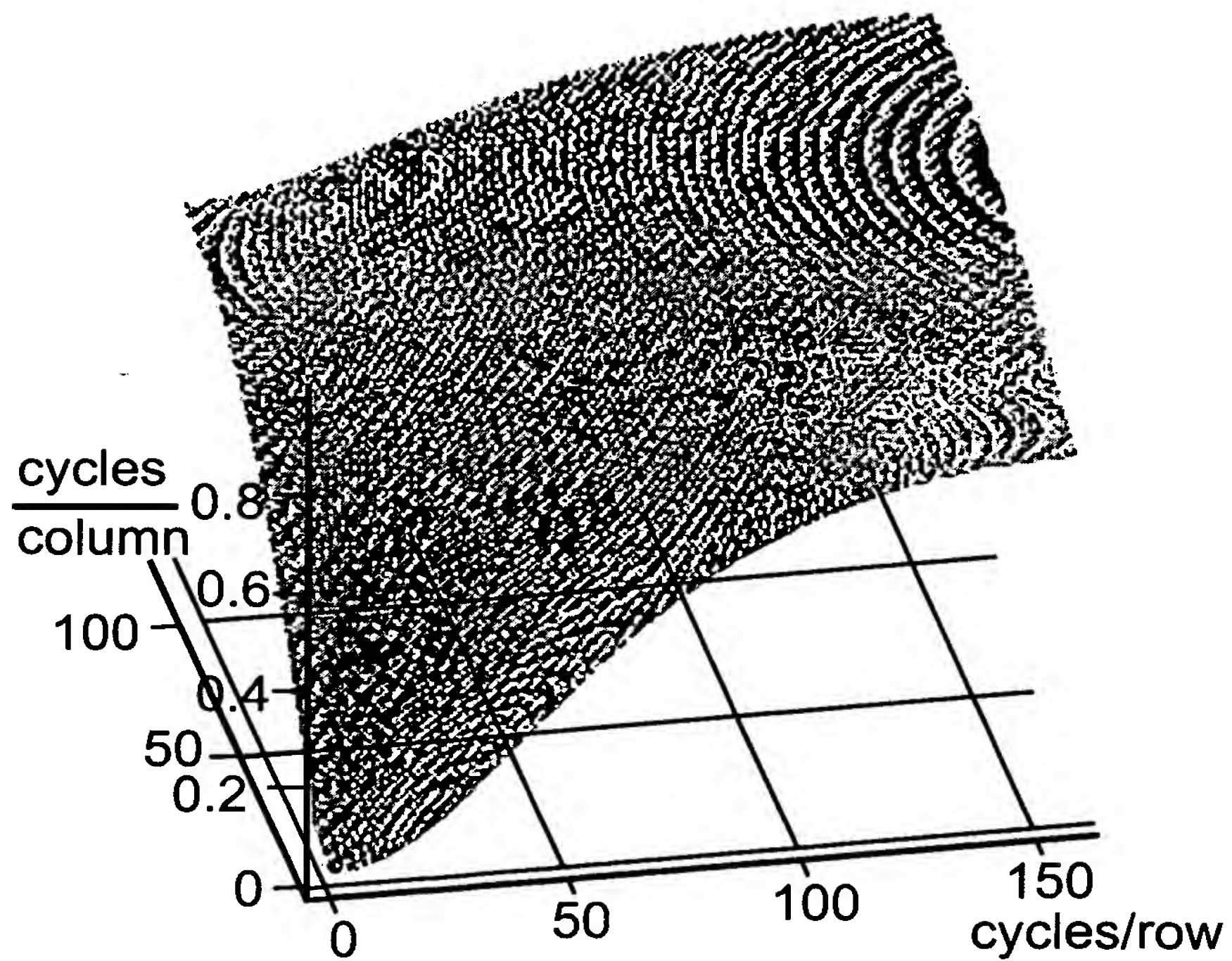


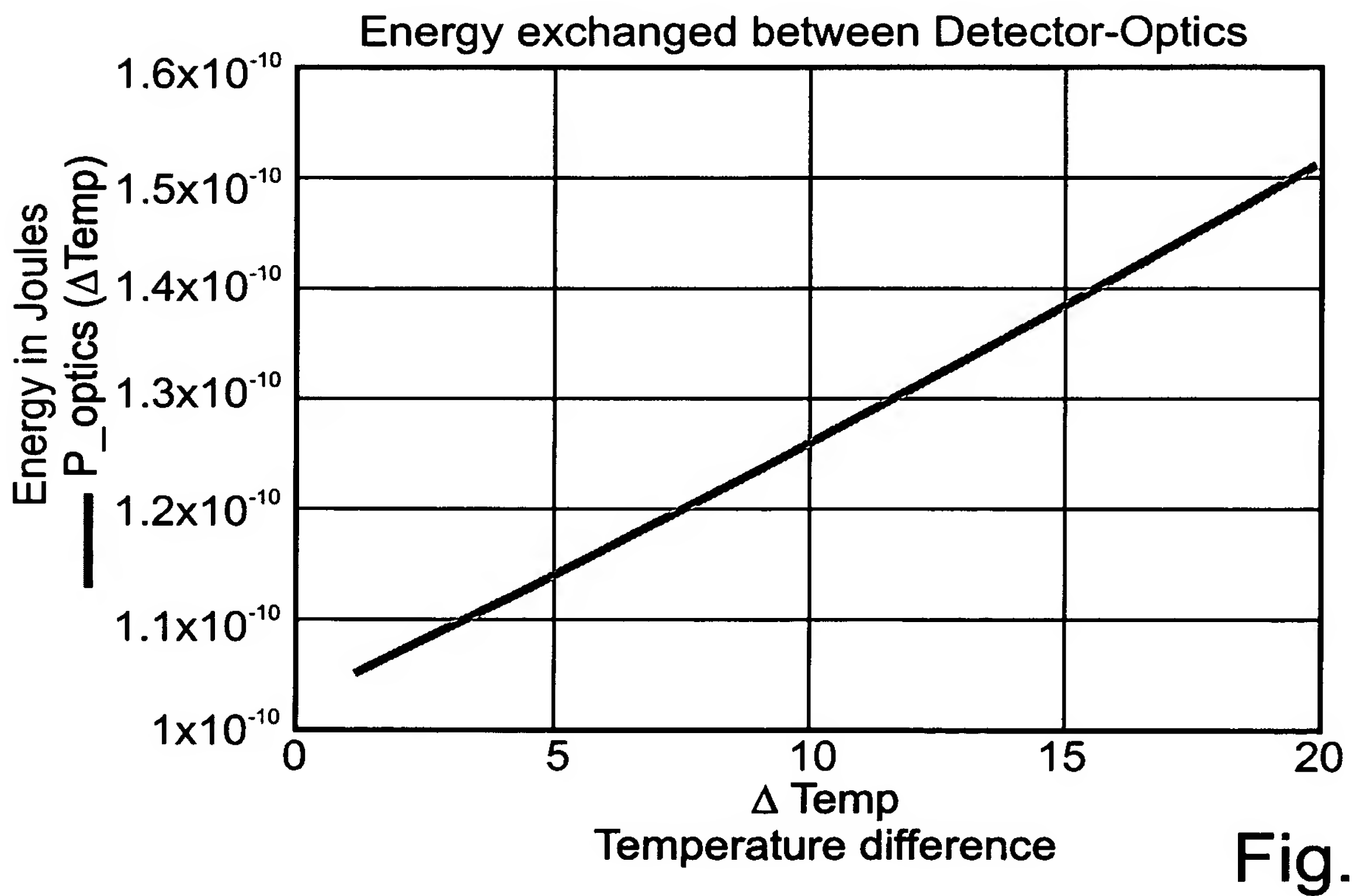
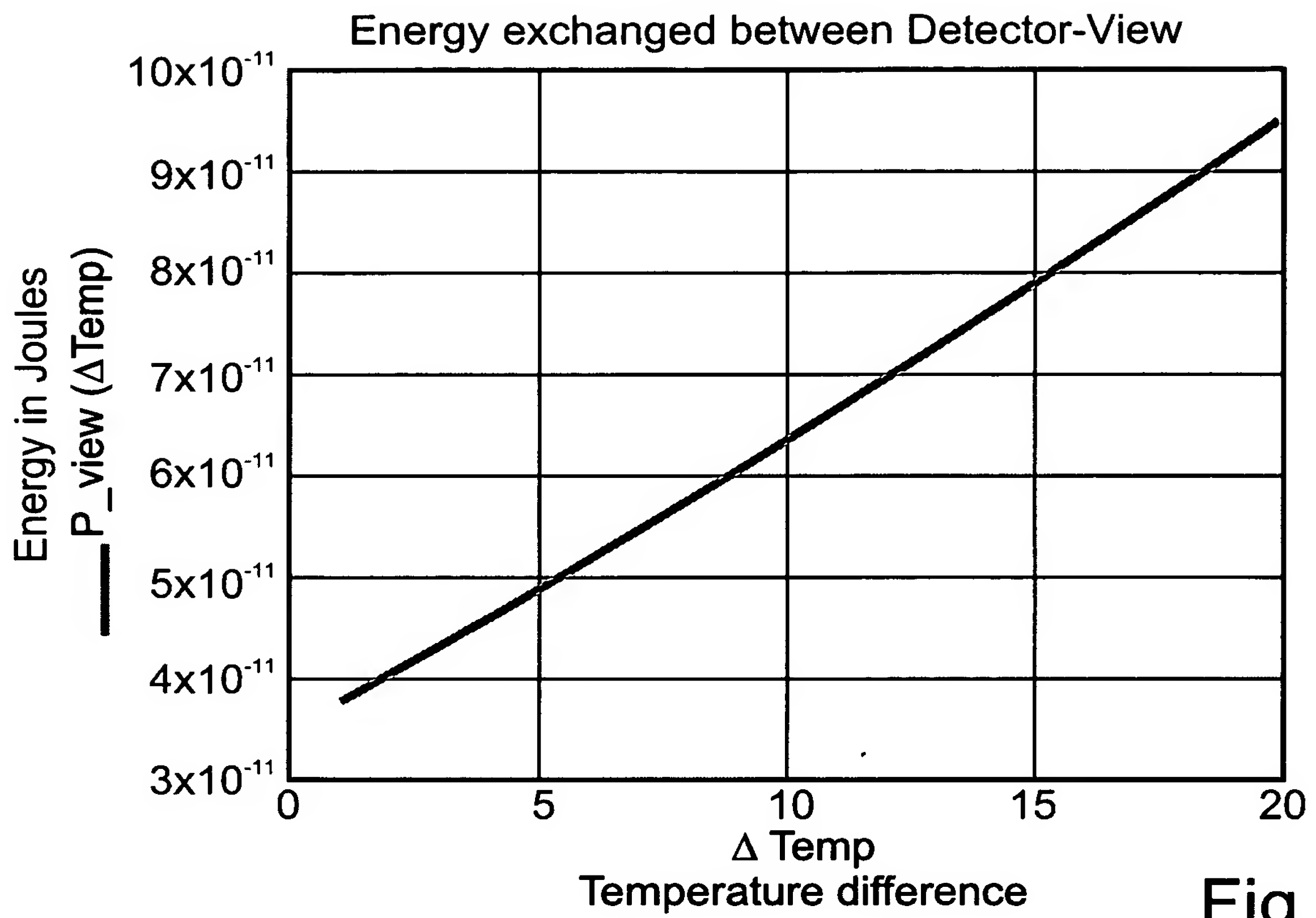
Fig. 5

Frequency response



High pass filter frequency response. Time filter is the MTF inverse approximation for a detector that contains 320 by 240 elements

Fig. 6



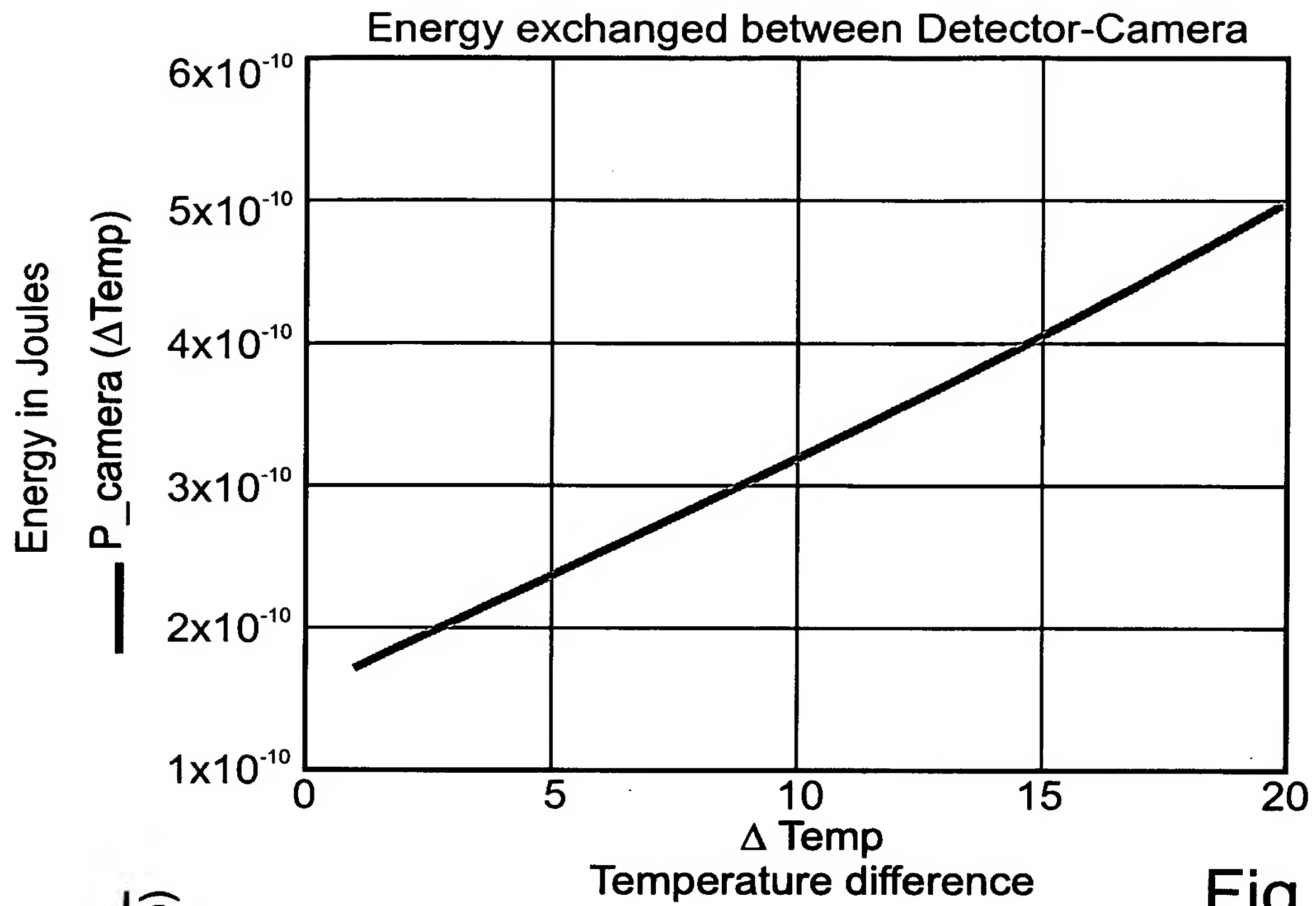


Fig. 9

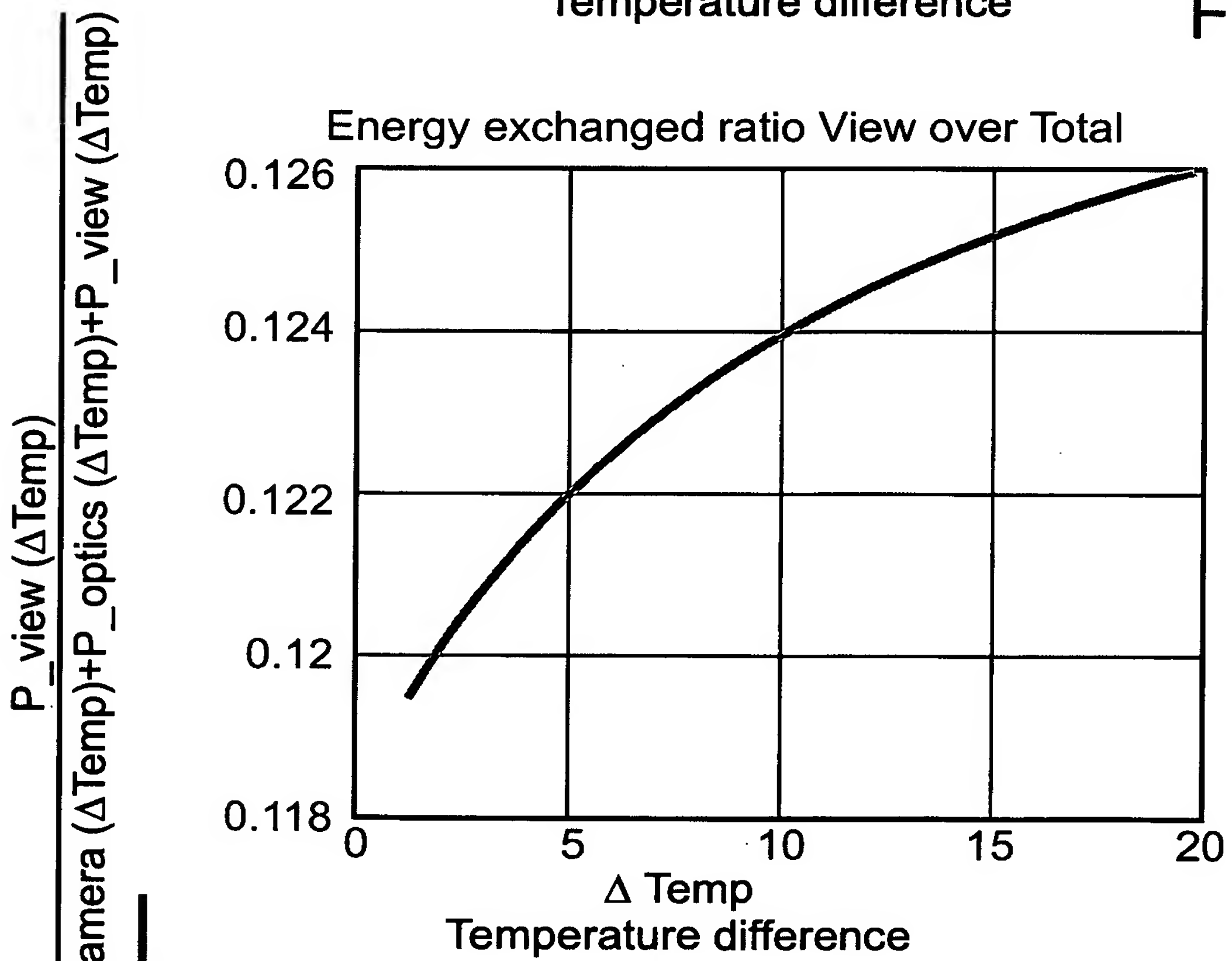


Fig. 10

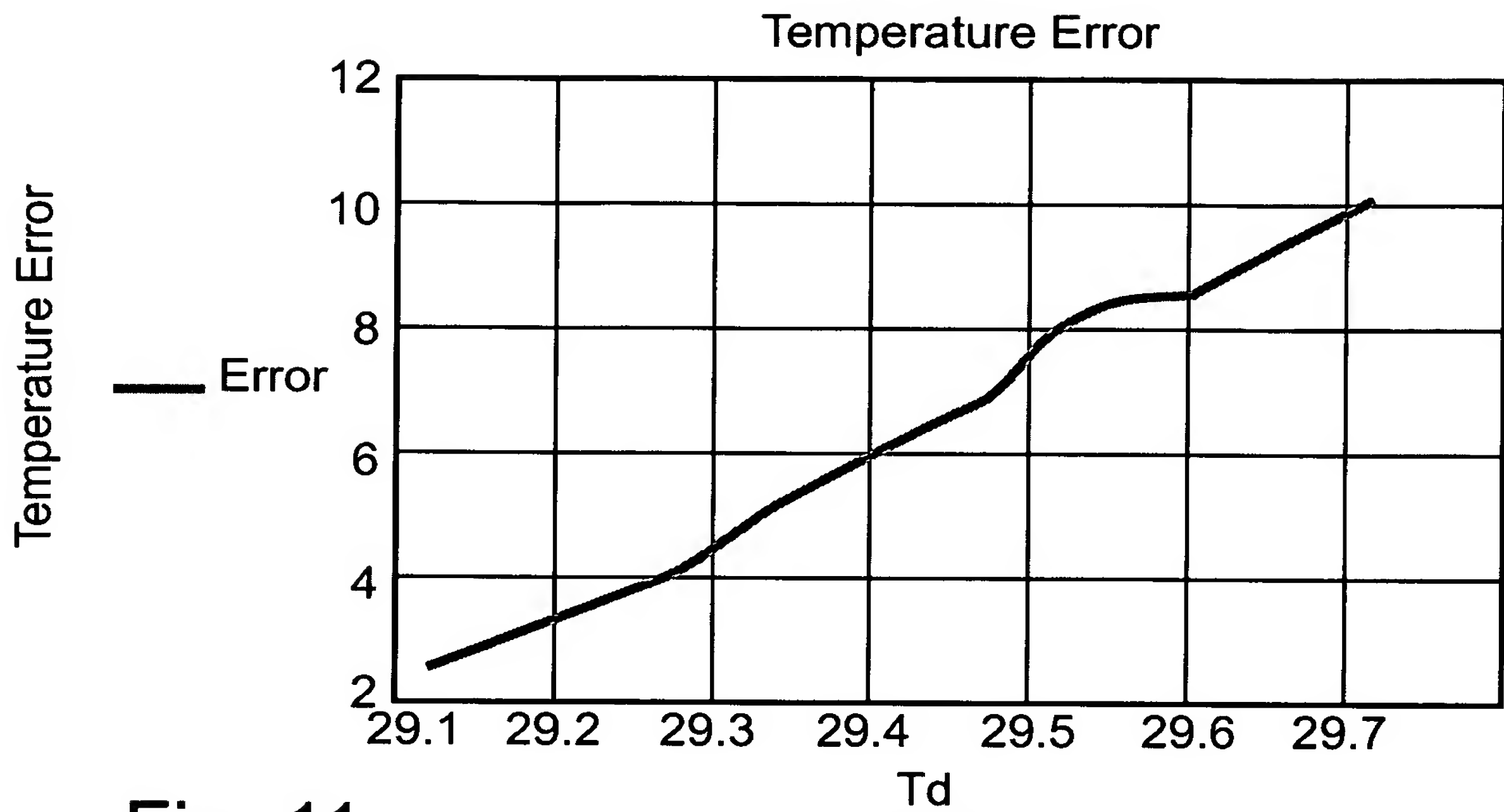


Fig. 11 Thermistor temperature value [deg. C]

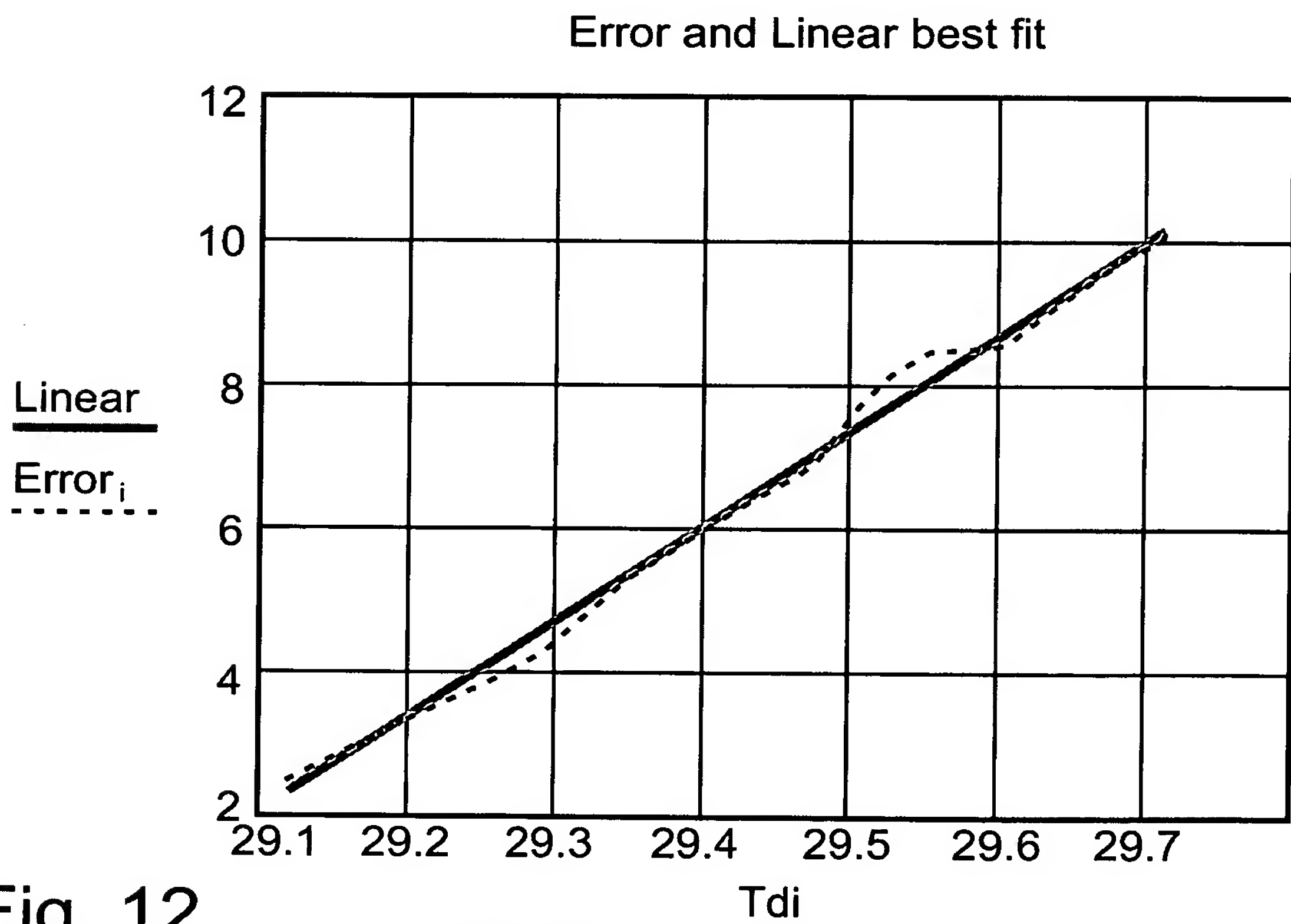


Fig. 12 Thermistor value [degree Celsius]

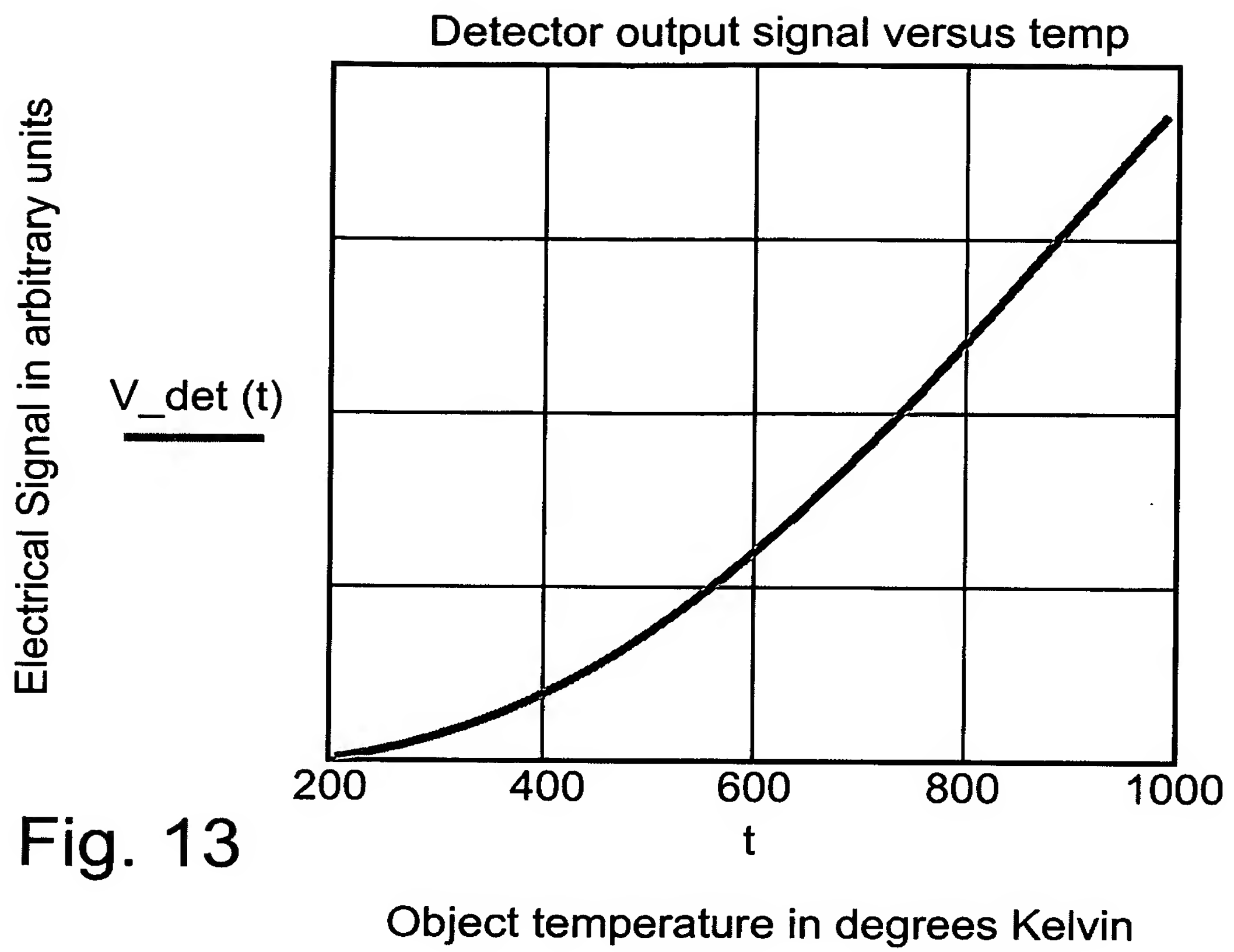


Fig. 13

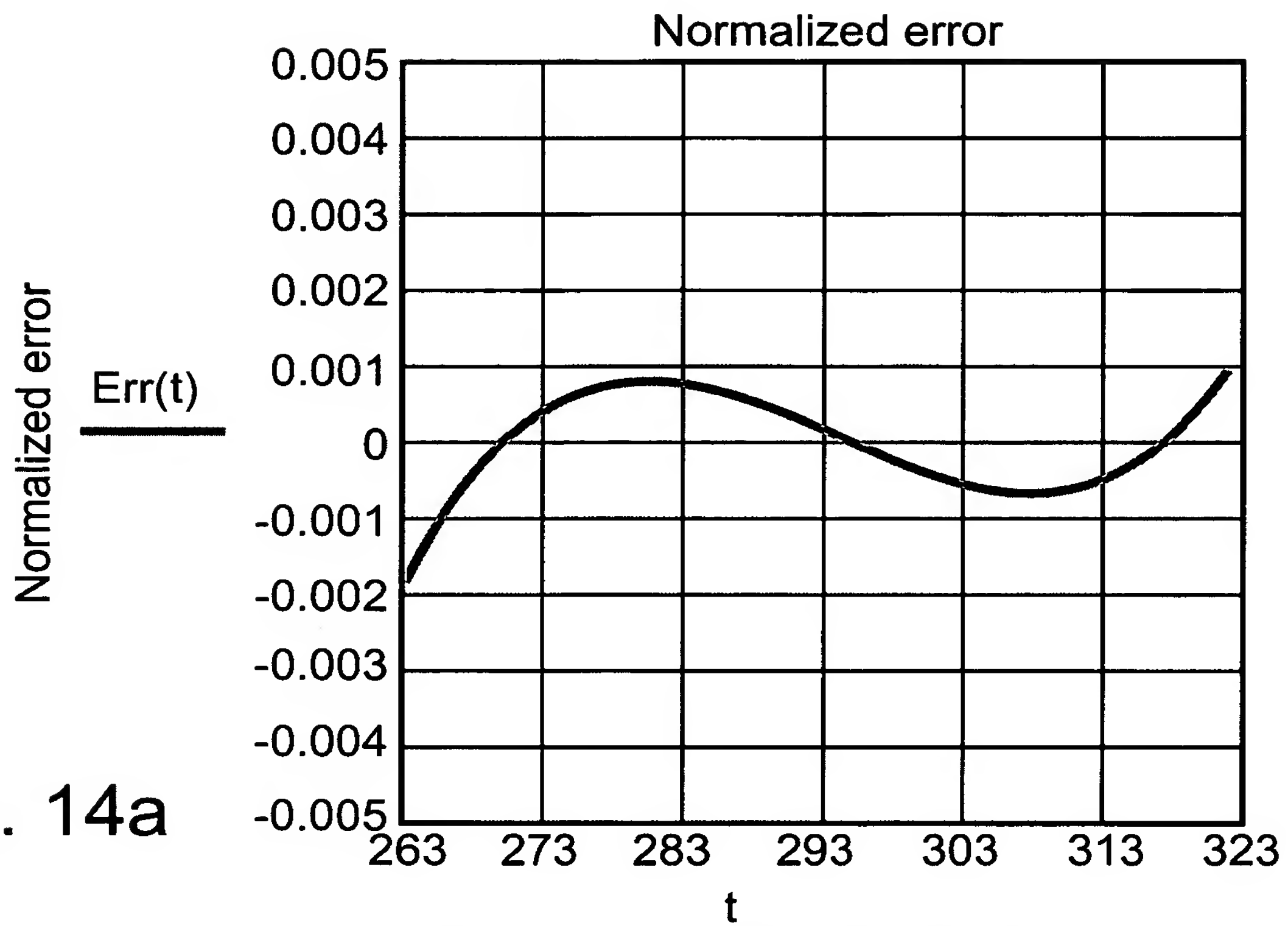


Fig. 14a

Temperature in degrees Kelvin
Second order polynomial expansion

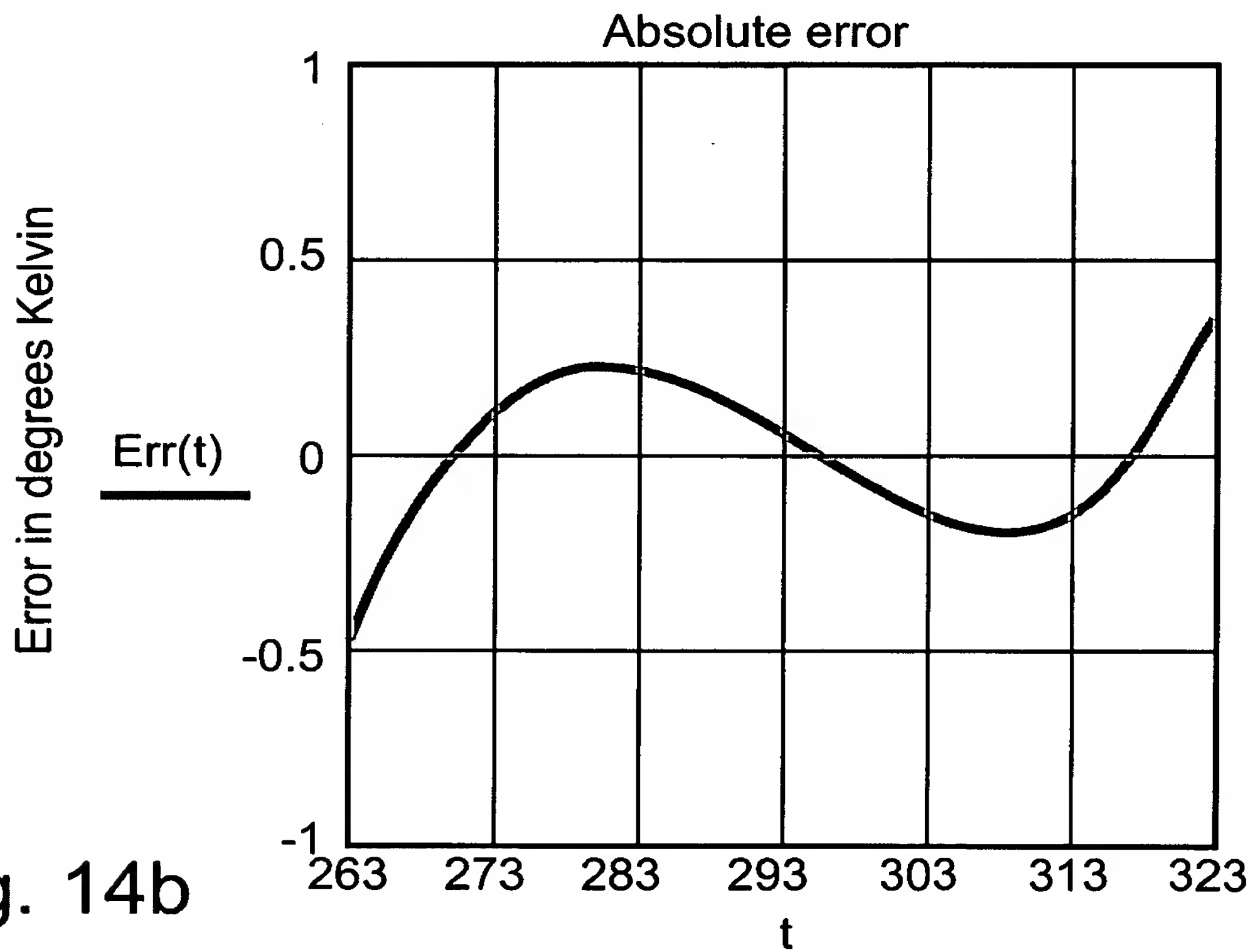


Fig. 14b

Temperature in degrees Kelvin
Second order polynomial expansion

9/11

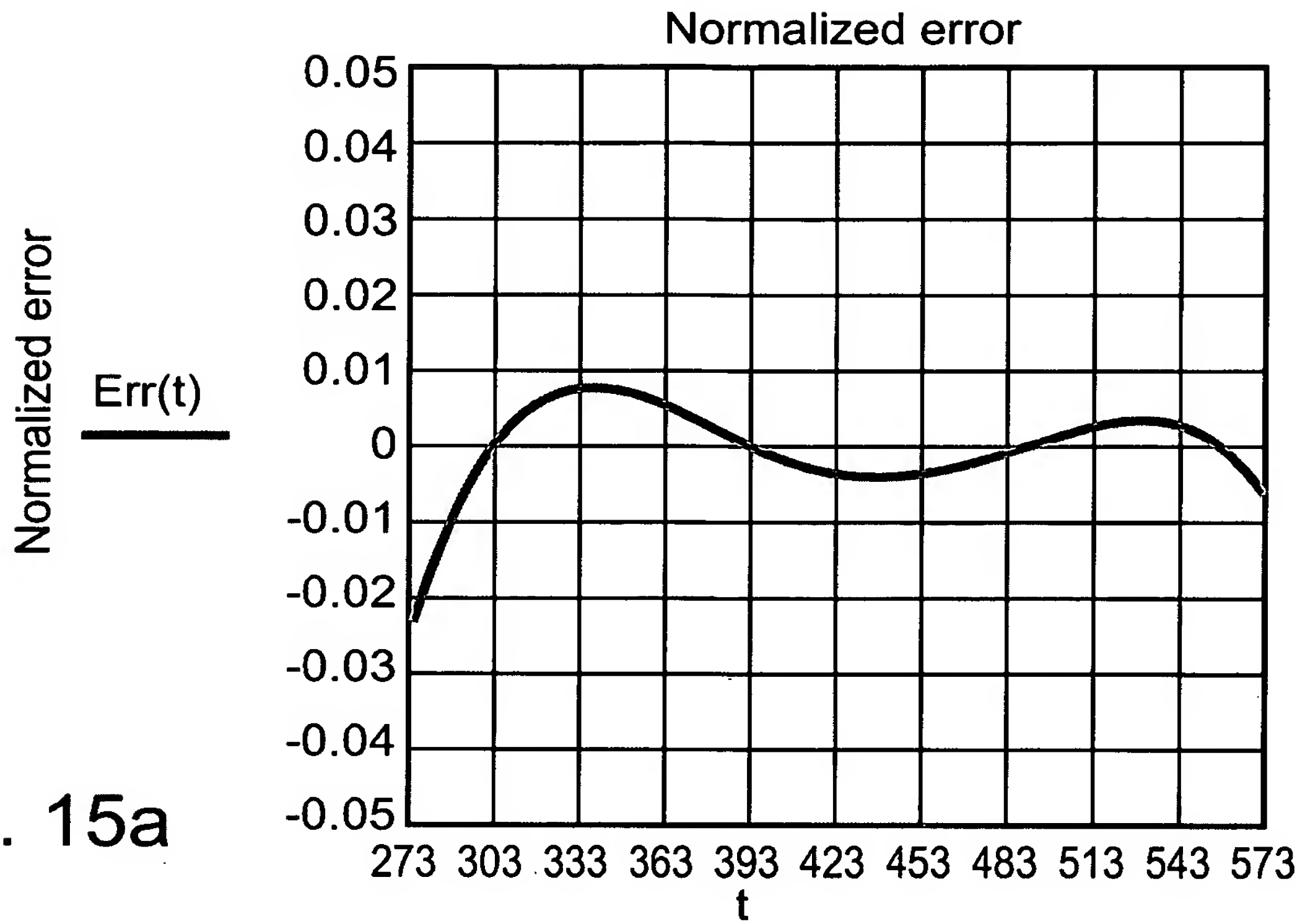


Fig. 15a

Third order polynomial approximation

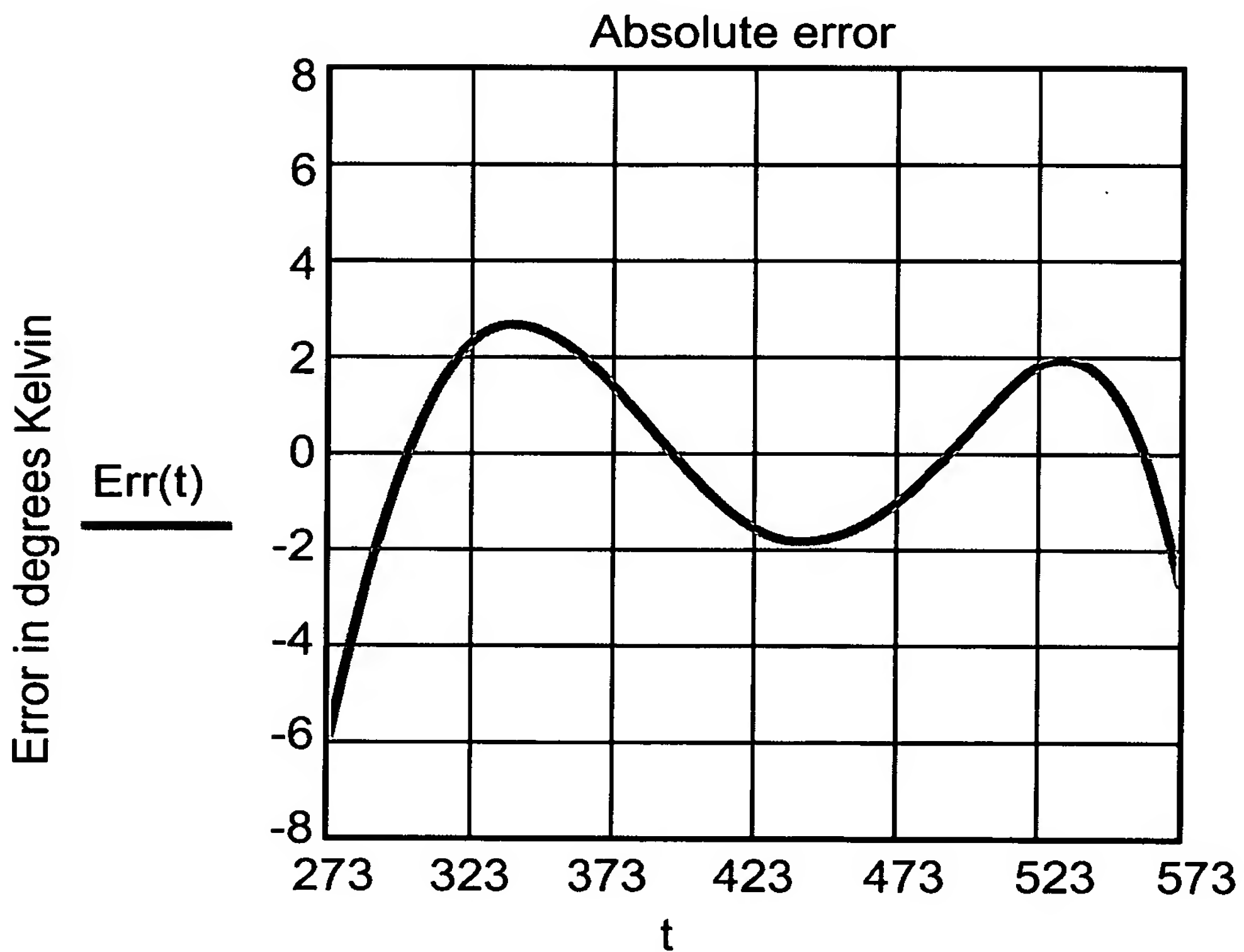


Fig. 15b

Third order polynomial approximation

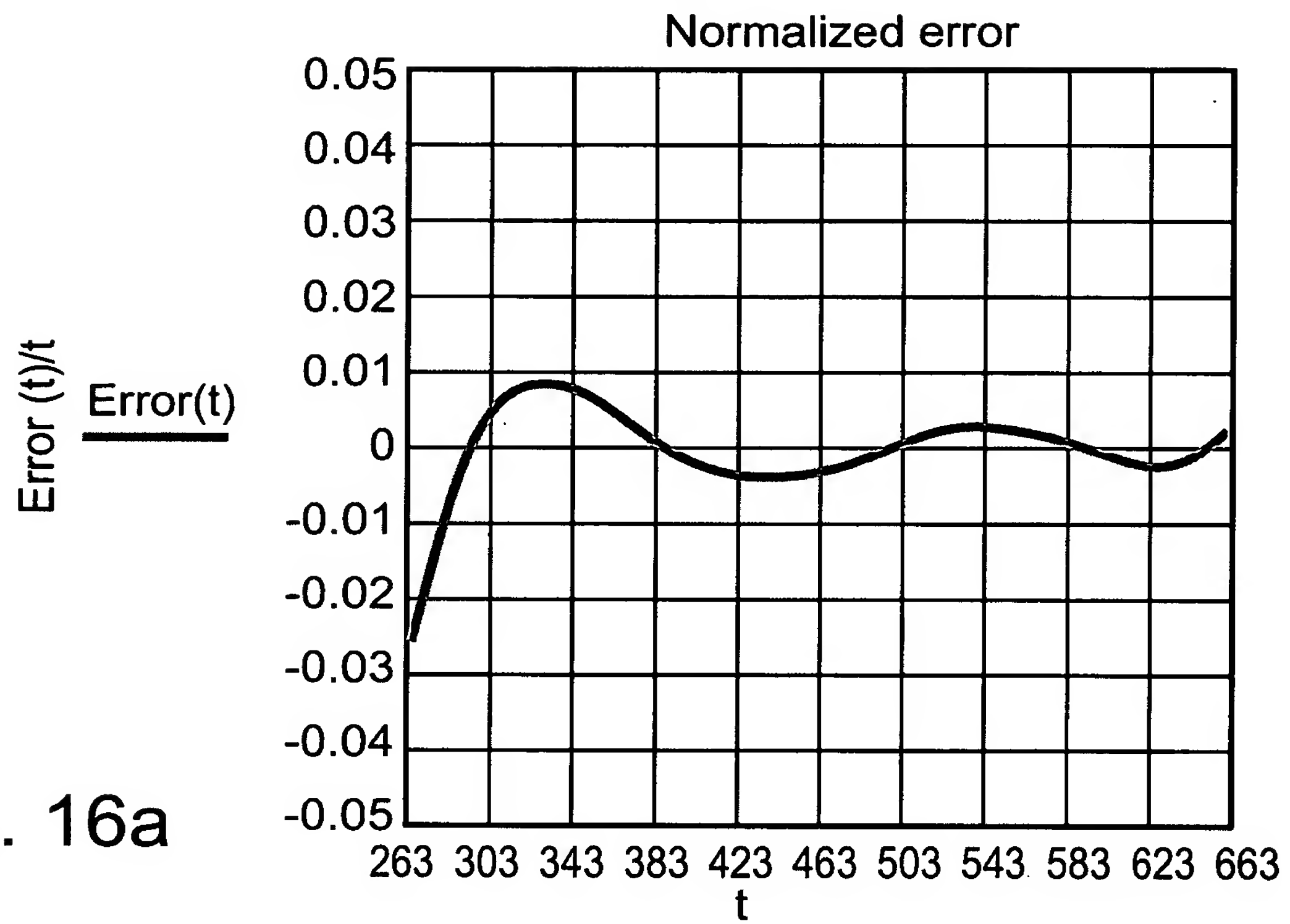


Fig. 16a

Fourth order polynomial expansion approximation

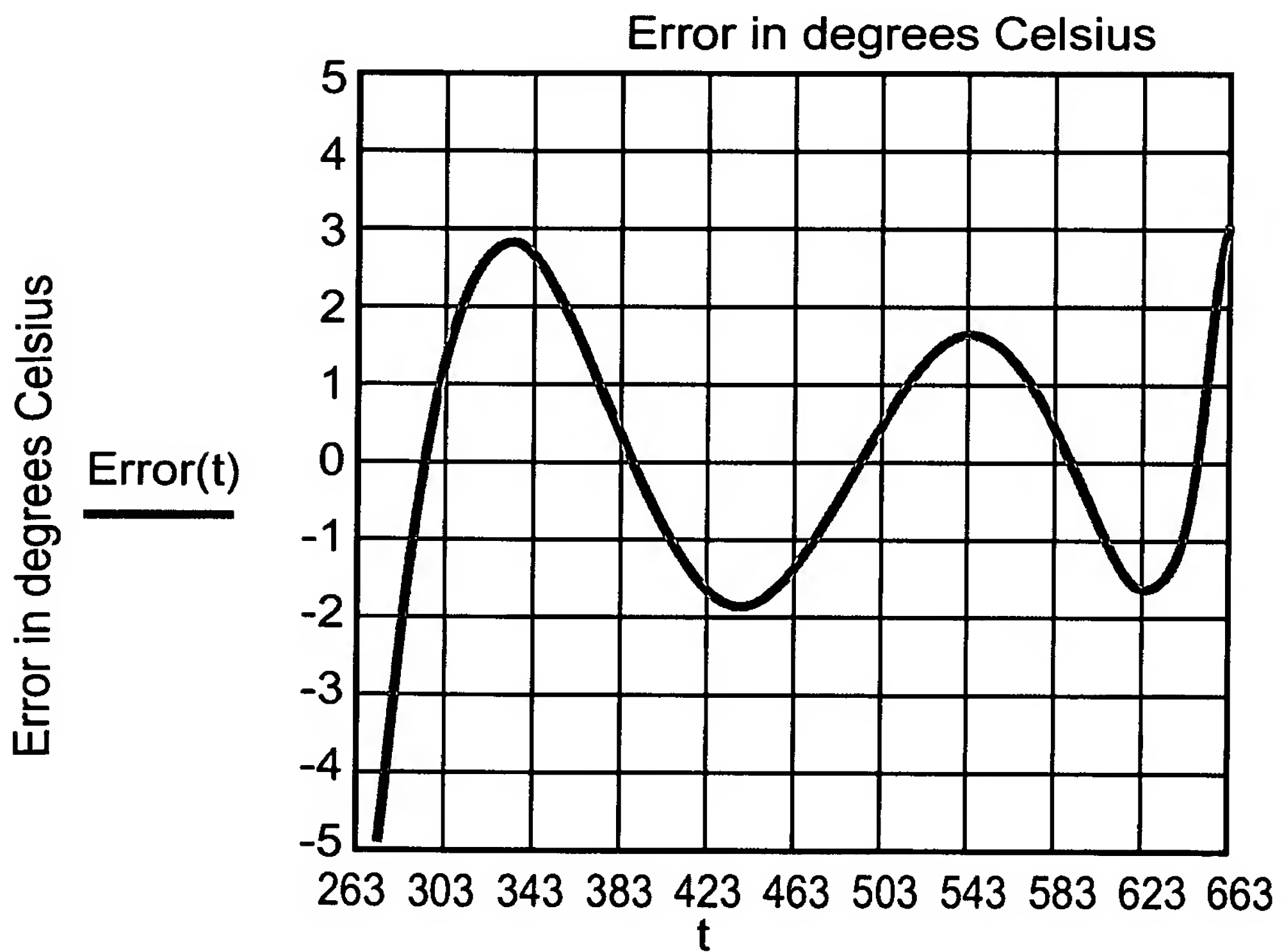
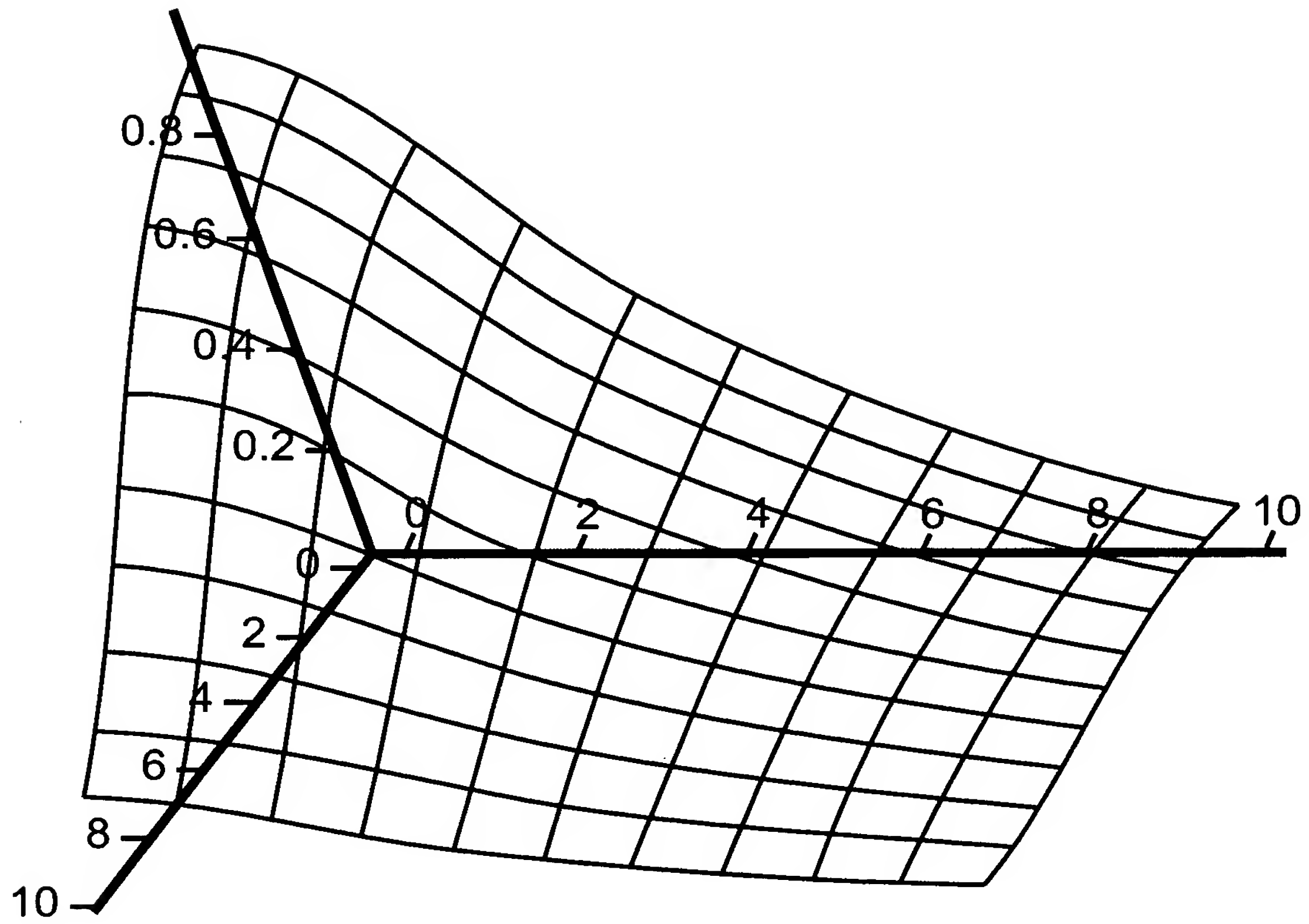


Fig. 16b

Fourth order polynomial expansion approximation



Fourier transform of camera impulse response

Fig. 17

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☒ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.